

3570 U.S. PRO  
09/391844

|  |       |         |
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|  |       | Success |
|  | Class |         |

TO: DRAFTING DIVISION VIA PUBLISHING DIVISION  
RE: DRAFTING DIVISION VIA PUBLISHING DIVISION  
RE: DRAFTING DIVISION VIA PUBLISHING DIVISION  
RE: DRAFTING DIVISION VIA PUBLISHING DIVISION

PATENT NUMBER

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**U.S. UTILITY PATENT APPLICATION**

|  |      |             |
|--|------|-------------|
| O.I.P.E.   | RM   | PATENT DATE |
| SCANNED  | d.a. | PG          |

|        |       |          |          |          |
|--------|-------|----------|----------|----------|
| SECTOR | CLASS | SUBCLASS | ART UNIT | EXAMINER |
|        | 235   | 493      | 2876     | HALOP    |

FILED WITH:  DISK (CRF)  FICHE

(Attached in pocket on right inside flap)

FIREMAN, J.

**PREPARED AND APPROVED FOR ISSUE**

**ISSUING CLASSIFICATION**

| ORIGINAL                     |          | CROSS REFERENCE(S) |                                   |     |     |     |      |
|------------------------------|----------|--------------------|-----------------------------------|-----|-----|-----|------|
| CLASS                        | SUBCLASS | CLASS              | SUBCLASS (ONE SUBCLASS PER BLOCK) |     |     |     |      |
| INTERNATIONAL CLASSIFICATION |          |                    |                                   |     |     |     |      |
| 1                            | 2        | 3                  | 4                                 | 5   | 6   | 7   | 8    |
| 9                            | 10       | 11                 | 12                                | 13  | 14  | 15  | 16   |
| 17                           | 18       | 19                 | 20                                | 21  | 22  | 23  | 24   |
| 25                           | 26       | 27                 | 28                                | 29  | 30  | 31  | 32   |
| 33                           | 34       | 35                 | 36                                | 37  | 38  | 39  | 40   |
| 41                           | 42       | 43                 | 44                                | 45  | 46  | 47  | 48   |
| 49                           | 50       | 51                 | 52                                | 53  | 54  | 55  | 56   |
| 57                           | 58       | 59                 | 60                                | 61  | 62  | 63  | 64   |
| 65                           | 66       | 67                 | 68                                | 69  | 70  | 71  | 72   |
| 73                           | 74       | 75                 | 76                                | 77  | 78  | 79  | 80   |
| 81                           | 82       | 83                 | 84                                | 85  | 86  | 87  | 88   |
| 89                           | 90       | 91                 | 92                                | 93  | 94  | 95  | 96   |
| 97                           | 98       | 99                 | 100                               | 101 | 102 | 103 | 104  |
| 105                          | 106      | 107                | 108                               | 109 | 110 | 111 | 112  |
| 113                          | 114      | 115                | 116                               | 117 | 118 | 119 | 120  |
| 121                          | 122      | 123                | 124                               | 125 | 126 | 127 | 128  |
| 129                          | 130      | 131                | 132                               | 133 | 134 | 135 | 136  |
| 137                          | 138      | 139                | 140                               | 141 | 142 | 143 | 144  |
| 145                          | 146      | 147                | 148                               | 149 | 150 | 151 | 152  |
| 153                          | 154      | 155                | 156                               | 157 | 158 | 159 | 160  |
| 161                          | 162      | 163                | 164                               | 165 | 166 | 167 | 168  |
| 169                          | 170      | 171                | 172                               | 173 | 174 | 175 | 176  |
| 177                          | 178      | 179                | 180                               | 181 | 182 | 183 | 184  |
| 185                          | 186      | 187                | 188                               | 189 | 190 | 191 | 192  |
| 193                          | 194      | 195                | 196                               | 197 | 198 | 199 | 200  |
| 201                          | 202      | 203                | 204                               | 205 | 206 | 207 | 208  |
| 209                          | 210      | 211                | 212                               | 213 | 214 | 215 | 216  |
| 217                          | 218      | 219                | 220                               | 221 | 222 | 223 | 224  |
| 225                          | 226      | 227                | 228                               | 229 | 230 | 231 | 232  |
| 233                          | 234      | 235                | 236                               | 237 | 238 | 239 | 240  |
| 241                          | 242      | 243                | 244                               | 245 | 246 | 247 | 248  |
| 249                          | 250      | 251                | 252                               | 253 | 254 | 255 | 256  |
| 257                          | 258      | 259                | 260                               | 261 | 262 | 263 | 264  |
| 265                          | 266      | 267                | 268                               | 269 | 270 | 271 | 272  |
| 273                          | 274      | 275                | 276                               | 277 | 278 | 279 | 280  |
| 281                          | 282      | 283                | 284                               | 285 | 286 | 287 | 288  |
| 289                          | 290      | 291                | 292                               | 293 | 294 | 295 | 296  |
| 297                          | 298      | 299                | 300                               | 301 | 302 | 303 | 304  |
| 305                          | 306      | 307                | 308                               | 309 | 310 | 311 | 312  |
| 313                          | 314      | 315                | 316                               | 317 | 318 | 319 | 320  |
| 321                          | 322      | 323                | 324                               | 325 | 326 | 327 | 328  |
| 329                          | 330      | 331                | 332                               | 333 | 334 | 335 | 336  |
| 337                          | 338      | 339                | 340                               | 341 | 342 | 343 | 344  |
| 345                          | 346      | 347                | 348                               | 349 | 350 | 351 | 352  |
| 353                          | 354      | 355                | 356                               | 357 | 358 | 359 | 360  |
| 361                          | 362      | 363                | 364                               | 365 | 366 | 367 | 368  |
| 369                          | 370      | 371                | 372                               | 373 | 374 | 375 | 376  |
| 377                          | 378      | 379                | 380                               | 381 | 382 | 383 | 384  |
| 385                          | 386      | 387                | 388                               | 389 | 390 | 391 | 392  |
| 393                          | 394      | 395                | 396                               | 397 | 398 | 399 | 400  |
| 401                          | 402      | 403                | 404                               | 405 | 406 | 407 | 408  |
| 409                          | 410      | 411                | 412                               | 413 | 414 | 415 | 416  |
| 417                          | 418      | 419                | 420                               | 421 | 422 | 423 | 424  |
| 425                          | 426      | 427                | 428                               | 429 | 430 | 431 | 432  |
| 433                          | 434      | 435                | 436                               | 437 | 438 | 439 | 440  |
| 441                          | 442      | 443                | 444                               | 445 | 446 | 447 | 448  |
| 449                          | 450      | 451                | 452                               | 453 | 454 | 455 | 456  |
| 457                          | 458      | 459                | 460                               | 461 | 462 | 463 | 464  |
| 465                          | 466      | 467                | 468                               | 469 | 470 | 471 | 472  |
| 473                          | 474      | 475                | 476                               | 477 | 478 | 479 | 480  |
| 481                          | 482      | 483                | 484                               | 485 | 486 | 487 | 488  |
| 489                          | 490      | 491                | 492                               | 493 | 494 | 495 | 496  |
| 497                          | 498      | 499                | 500                               | 501 | 502 | 503 | 504  |
| 505                          | 506      | 507                | 508                               | 509 | 510 | 511 | 512  |
| 513                          | 514      | 515                | 516                               | 517 | 518 | 519 | 520  |
| 521                          | 522      | 523                | 524                               | 525 | 526 | 527 | 528  |
| 529                          | 530      | 531                | 532                               | 533 | 534 | 535 | 536  |
| 537                          | 538      | 539                | 540                               | 541 | 542 | 543 | 544  |
| 545                          | 546      | 547                | 548                               | 549 | 550 | 551 | 552  |
| 553                          | 554      | 555                | 556                               | 557 | 558 | 559 | 560  |
| 561                          | 562      | 563                | 564                               | 565 | 566 | 567 | 568  |
| 569                          | 570      | 571                | 572                               | 573 | 574 | 575 | 576  |
| 577                          | 578      | 579                | 580                               | 581 | 582 | 583 | 584  |
| 585                          | 586      | 587                | 588                               | 589 | 590 | 591 | 592  |
| 593                          | 594      | 595                | 596                               | 597 | 598 | 599 | 600  |
| 601                          | 602      | 603                | 604                               | 605 | 606 | 607 | 608  |
| 609                          | 610      | 611                | 612                               | 613 | 614 | 615 | 616  |
| 617                          | 618      | 619                | 620                               | 621 | 622 | 623 | 624  |
| 625                          | 626      | 627                | 628                               | 629 | 630 | 631 | 632  |
| 633                          | 634      | 635                | 636                               | 637 | 638 | 639 | 640  |
| 641                          | 642      | 643                | 644                               | 645 | 646 | 647 | 648  |
| 649                          | 650      | 651                | 652                               | 653 | 654 | 655 | 656  |
| 657                          | 658      | 659                | 660                               | 661 | 662 | 663 | 664  |
| 665                          | 666      | 667                | 668                               | 669 | 670 | 671 | 672  |
| 673                          | 674      | 675                | 676                               | 677 | 678 | 679 | 680  |
| 681                          | 682      | 683                | 684                               | 685 | 686 | 687 | 688  |
| 689                          | 690      | 691                | 692                               | 693 | 694 | 695 | 696  |
| 697                          | 698      | 699                | 700                               | 701 | 702 | 703 | 704  |
| 705                          | 706      | 707                | 708                               | 709 | 710 | 711 | 712  |
| 713                          | 714      | 715                | 716                               | 717 | 718 | 719 | 720  |
| 721                          | 722      | 723                | 724                               | 725 | 726 | 727 | 728  |
| 729                          | 730      | 731                | 732                               | 733 | 734 | 735 | 736  |
| 737                          | 738      | 739                | 740                               | 741 | 742 | 743 | 744  |
| 745                          | 746      | 747                | 748                               | 749 | 750 | 751 | 752  |
| 753                          | 754      | 755                | 756                               | 757 | 758 | 759 | 760  |
| 761                          | 762      | 763                | 764                               | 765 | 766 | 767 | 768  |
| 769                          | 770      | 771                | 772                               | 773 | 774 | 775 | 776  |
| 777                          | 778      | 779                | 780                               | 781 | 782 | 783 | 784  |
| 785                          | 786      | 787                | 788                               | 789 | 790 | 791 | 792  |
| 793                          | 794      | 795                | 796                               | 797 | 798 | 799 | 800  |
| 801                          | 802      | 803                | 804                               | 805 | 806 | 807 | 808  |
| 809                          | 810      | 811                | 812                               | 813 | 814 | 815 | 816  |
| 817                          | 818      | 819                | 820                               | 821 | 822 | 823 | 824  |
| 825                          | 826      | 827                | 828                               | 829 | 830 | 831 | 832  |
| 833                          | 834      | 835                | 836                               | 837 | 838 | 839 | 840  |
| 841                          | 842      | 843                | 844                               | 845 | 846 | 847 | 848  |
| 849                          | 850      | 851                | 852                               | 853 | 854 | 855 | 856  |
| 857                          | 858      | 859                | 860                               | 861 | 862 | 863 | 864  |
| 865                          | 866      | 867                | 868                               | 869 | 870 | 871 | 872  |
| 873                          | 874      | 875                | 876                               | 877 | 878 | 879 | 880  |
| 881                          | 882      | 883                | 884                               | 885 | 886 | 887 | 888  |
| 889                          | 890      | 891                | 892                               | 893 | 894 | 895 | 896  |
| 897                          | 898      | 899                | 900                               | 901 | 902 | 903 | 904  |
| 905                          | 906      | 907                | 908                               | 909 | 910 | 911 | 912  |
| 913                          | 914      | 915                | 916                               | 917 | 918 | 919 | 920  |
| 921                          | 922      | 923                | 924                               | 925 | 926 | 927 | 928  |
| 929                          | 930      | 931                | 932                               | 933 | 934 | 935 | 936  |
| 937                          | 938      | 939                | 940                               | 941 | 942 | 943 | 944  |
| 945                          | 946      | 947                | 948                               | 949 | 950 | 951 | 952  |
| 953                          | 954      | 955                | 956                               | 957 | 958 | 959 | 960  |
| 961                          | 962      | 963                | 964                               | 965 | 966 | 967 | 968  |
| 969                          | 970      | 971                | 972                               | 973 | 974 | 975 | 976  |
| 977                          | 978      | 979                | 980                               | 981 | 982 | 983 | 984  |
| 985                          | 986      | 987                | 988                               | 989 | 990 | 991 | 992  |
| 993                          | 994      | 995                | 996                               | 997 | 998 | 999 | 1000 |

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| TERMINAL<br>DISCLAIMER   | DRAWINGS                     |             |                    | CLAIMS ALLOWED             |                      |
|--|------------------------------|-------------|--------------------|----------------------------|----------------------|
|  | Sheets Drwg.                 | Figs. Drwg. | Print Fig.         | Total Claims               | Print Claim for O.G. |
| <input type="checkbox"/> a) The term of this patent<br>subsequent to _____ (date)<br>has been disclaimed.  |                              |             |                    | NOTICE OF ALLOWANCE MAILED |                      |
| <input type="checkbox"/> b) The term of this patent shall<br>not extend beyond the expiration date<br>of U.S Patent. No. _____<br>_____<br>_____ |                              |             |                    | ISSUE FEE                  |                      |
| <input type="checkbox"/> c) The terminal _____ months of<br>this patent have been disclaimed.  |                              |             |                    | Amount Due                 | Date Paid            |
|  | (Assistant Examiner)         | (Date)      | (Primary Examiner) | (Date)                     |                      |
|  | (Legal Instruments Examiner) | (Date)      |                    |                            | ISSUE BATCH NUMBER   |

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(Rev. 6/98)

(LABEL AREA)

(FACE)